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**Process of machining outer joint parts or inner joint parts
with pairs of tracks
extending parallel relative to one another, wherein
said pairs of tracks are machined simultaneously**

Abstract

A process of machining outer joint parts 11 and inner joint parts 21 of constant velocity universal ball joints, which outer joint parts 11 and inner joint parts 21 each comprise a longitudinal axis and a number of ball tracks 12, wherein the ball tracks are each arranged circumferentially in pairs 12₁, 12₂, whose central track lines are positioned in planes E₁, E₂, E₃, E₄ extending parallel relative to one another, wherein the pairs of ball tracks 12 are machined by rotating disc tools 16 whose axes of rotation R perpendicularly intersect the respective longitudinal axis at a distance from one another and are held and guided coaxially relative to one another.

Figure 1